



CliQ Power Supplies for DIN Rail Applications



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About us



Delta Group is the world's largest provider of switching power supplies and a major source for power management solutions, components, visual displays, industrial automation, networking products and renewable energy solutions. Established in 1971, Delta Group has sales offices worldwide and manufacturing plants in Taiwan, Thailand, China, Mexico and Europe.

As a global leader in power electronics, Delta is committed to environment protection and has implemented green, lead-free production and recycling and waste management programs for many years. Delta's mission continues to be: „To provide innovative energy saving products for a better quality of life.“

With vigorous business growth of 18% per year since 1994, Delta achieved annual sales of 5.2 billion USD in 2007. Currently, Delta Electronics Group has more than 50,000 employees worldwide working in sales, R&D and manufacturing facilities.

60 W 1 Phase Plastic CliQ Power Supply

DRP024V060W1AZ



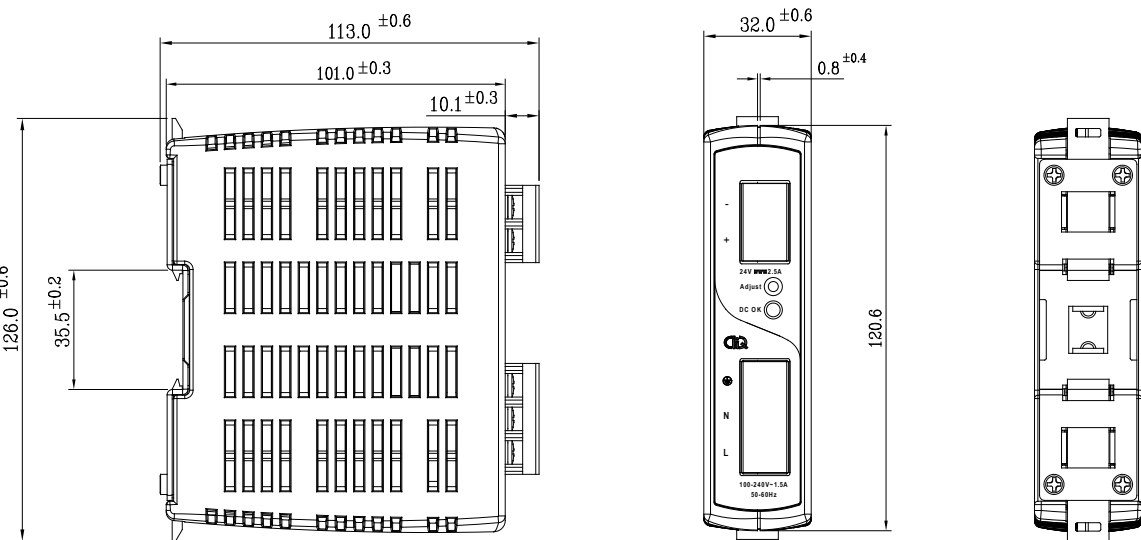
Features:

- Ease of wire connection to terminals
- Compact design for easy handling
- Overload protection
- Overvoltage protection
- Thermal protection
- Power boost 150% for 3 seconds
- Expected life time: 10 years
- Redundancy: Yes (with external oring diode)
- RoHS compliant



60 W 1 Phase Plastic CliQ Power Supply

Mechanical drawings



1 Phase 60 W CliQ DIN Rail Power Supply

The new CliQ DRP024V060W1AZ is the latest offering from one of the world's largest power supply manufacturers - Delta.

The product offers a nominal output voltage of 24 V, a wide temperature range from -20°C to +75°C and a minimum hold-up time of 20 ms.

The state-of-the-art design is made to withstand harsh industrial environments. The rugged, ultra-compact plastic case is shock and vibration resistant according to IEC 60068-2.

The 60 watts CliQ DIN Rail power supply provides overvoltage, overload and thermal protection.

Due to the wide input voltage range from 85 to 264 Vac, the Delta's CliQ power supply is worldwide usable.

Multiple output terminals for fast wiring and easy installation.

INPUT SPECIFICATIONS	
Input voltage range	85 - 264 Vac (DC input range 120 - 375 Vdc)
Input frequency	47 Hz - 63 Hz
Nominal current	1.1 A @ 115 Vac, 0.7 A @ 230 Vac
Inrush current limitation I _{th} (+25°C) typ.	30 A @ 115 Vac, 60 A @ 230 Vac typ.
Power factor	Conform to EN 61000-3-2 STD
Efficiency	> 85% typ.
Leakage current	< 1 mA

OUTPUT SPECIFICATIONS	
Output power	60 W
Output voltage range	22 V - 28 V
Output current	2.5 A
Residual ripple / peak switching (20 MHz) (at nominal values)	< 50 mV / < 240 mVpp
Mains buffering at nominal load (typ.)	> 20 ms @ 115 Vac, > 125 ms @ 230 Vac
Line regulation	< 0.5% typ. (@ 85 - 264 Vac input, 100% load)
Load regulation	< 1% typ. (with rated input, 0 - 100% load)

SAFETY	
EMC / Emissions	Class B / EN55022, CISPR22, Class B; FCC Title 47; EN 61204-3 (Class B on AC & Class A on DC side)
Immunity	EN 61000-4-2, 1995; EN 61000-4-3, 1998; EN 61000-4-4, 1995; IEC 61000-4-5, 1995; EN 61000-4-6, 1996; EN 61000-4-8 or IEC 61000-4-12 or IEEE C62.41; EN 61000-3-2, 1994
Approvals	UL508, EN 60950, cULus 60950, EN 50178, EN 60204, GS, CCSAus to CSA C22.2 No. 60950-1: 03
Voltage dips	Conform to EN 61000-4-11
Galvanic isolation	Input to output: 4 KVac Input to ground: 1.5 KVac Output to ground: 1.5 KVac

ENVIRONMENTAL	
Operating ambient temperature	-20°C ... +75°C *
Storage temperature	-25°C ... +85°C
Humidity operation	< 95%
Note (*)	* Operating amb. < 0°C to -20°C derate power by 1% / °C Operating amb. > 50°C derate power by 2.5% / °C Operating amb. > 70°C derate power by 4% / °C

MECHANICAL DESIGN	
Case cover	Plastic (PC)
Dimensions (L x W x H)	126 mm x 32 mm x 113 mm
Unit weight / box	0.325 kg
MTBF	> 800,000 hrs
Noise	Sound pressure level (SPL) < 40 dBA
Cooling	Convection
Input terminal	M4 x 3
Output terminal	M4 x 2
Mounting rail	Standard TS35 mounting rail
Shock proof	IEC 60068-2-27
Vibration	IEC 60068-2-6
Protection structure	EN 60950 meet IPX0

60 W 1 Phase Metal CliQ Power Supply

60 W 1 Phase Metal CliQ Power Supply

DRP024V060W1AA

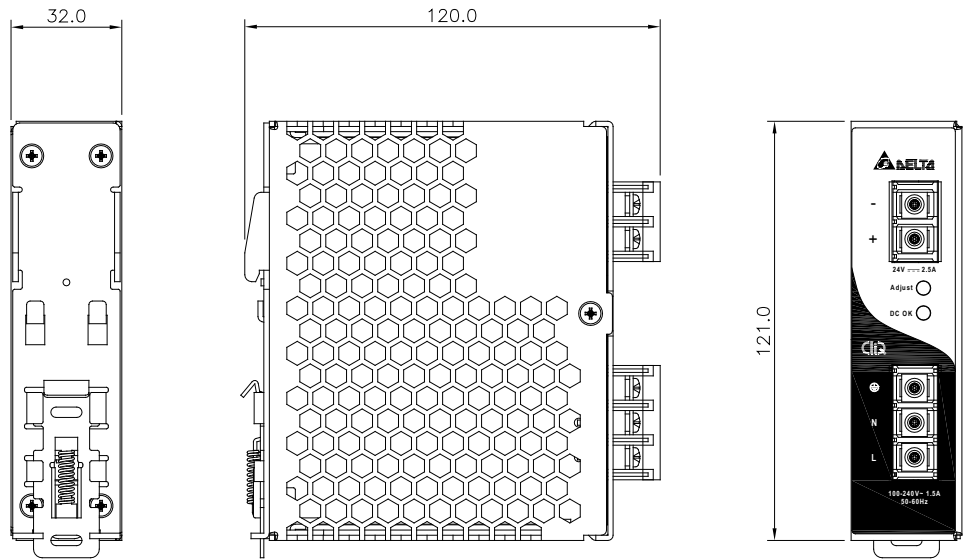


Features:

- Ease of wire connection to terminals
- Compact design for easy handling
- Overload protection
- Overvoltage protection
- Thermal protection
- Power boost 150% for 3 seconds
- Expected life time: 10 years
- Redundancy: Yes (with external oring diode)
- RoHS compliant



Mechanical drawings



1 Phase 60 W CliQ DIN Rail Power Supply

The new CliQ DRP024V060W1AA is the latest offering from one of the world’s largest power supply manufacturers - Delta.

The product offers a nominal output voltage of 24 V, a wide temperature range from -20°C to +75°C and a minimum hold-up time of 20 ms.

The state-of-the-art design is made to withstand harsh industrial environments. The rugged, ultra-compact metal case is shock and vibration resistant according to IEC 60068-2.


The 60 watts CliQ DIN Rail power supply provides overvoltage, overload and thermal protection.

Due to the wide input voltage range from 85 to 264 Vac, the Delta’s CliQ power supply is worldwide usable.

Multiple output terminals for fast wiring and easy installation.

INPUT SPECIFICATIONS	
Input voltage range	85 - 264 Vac (DC input range 120 - 375 Vdc)
Input frequency	47 Hz - 63 Hz
Nominal current	1.1 A @ 115 Vac, 0.7 A @ 230 Vac
Inrush current limitation I _{It} (+25°C) typ.	30 A @ 115 Vac, 60 A @ 230 Vac typ.
Power factor	Conform to EN 61000-3-2 STD
Efficiency	> 85% typ.
Leakage current	< 1 mA

OUTPUT SPECIFICATIONS	
Output power	60 W
Output voltage range	22 V - 28 V
Output current	2.5 A
Residual ripple / peak switching (20 MHz) (at nominal values)	< 50 mV / < 240 mVpp
Mains buffering at nominal load (typ.)	> 20 ms @ 115 Vac, > 125 ms @ 230 Vac
Line regulation	< 0.5% typ. (@ 85 - 264 Vac input, 100% load)
Load regulation	< 1% typ. (with rated input, 0 - 100% load)

SAFETY	
EMC / Emissions	Class B / EN55022, CISPR22, Class B; FCC Title 47; EN 61204-3 (Class B on AC & Class A on DC side)
Immunity	EN 61000-4-2, 1995; EN 61000-4-3, 1998; EN 61000-4-4, 1995; IEC 61000-4-5, 1995; EN 61000-4-6, 1996; EN 61000-4-8 or IEC 61000-4-12 or IEEE C62.41; EN 61000-3-2, 1994
Approvals	UL508, EN 60950, cULus 60950, EN 50178, EN 60204, GS
	
Voltage dips	Conform to EN 61000-4-11
Galvanic isolation	Input to output: 4 KVac Input to ground: 1.5 KVac Output to ground: 1.5 KVac

ENVIRONMENTAL	
Operating ambient temperature	-20°C ... +75°C *
Storage temperature	-25°C ... +85°C
Humidity operation	< 95%
Note (*)	* Operating amb. < 0°C to -20°C derate power by 1% / °C Operating amb. > 50°C derate power by 2.5% / °C

MECHANICAL DESIGN	
Case cover	Aluminium (Al5052)
Dimensions (L x W x H)	121 mm x 32 mm x 120 mm
Unit weight / box	0.370 kg
MTBF	> 800,000 hrs
Noise	Sound pressure level (SPL) < 40 dBA
Cooling	Convection
Input terminal	M4 x 3
Output terminal	M4 x 2
Mounting rail	Standard TS35 mounting rail
Shock proof	IEC 60068-2-27
Vibration	IEC 60068-2-6
Protection structure	EN 60950 meet IPX0

120 W 1 Phase CliQ Power Supply

DRP024V120W1AA



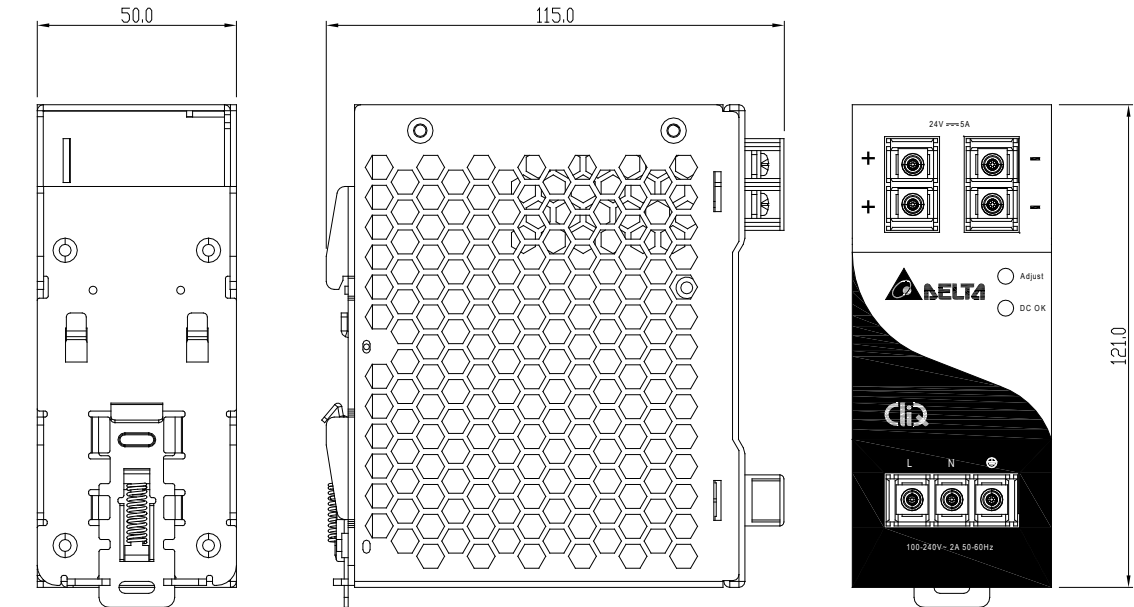
Features:

- Ease of wire connection to terminals
- Compact design for easy handling
- Overload protection
- Overvoltage protection
- Thermal protection
- Power boost 150% for 3 seconds
- Expected life time: 10 years
- Redundancy: Yes (with external oring diode)
- RoHS compliant



120 W 1 Phase CliQ Power Supply

Mechanical drawings



1 Phase 120 W CliQ DIN Rail Power Supply

The new CliQ DRP024V120W1AA is the latest offering from one of the world's largest power supply manufacturers - Delta.

The product offers a nominal output voltage of 24 V, a wide temperature range from -20°C to +75°C and a minimum hold-up time of 20 ms.

The state-of-the-art design is made to withstand harsh industrial environments. The rugged, ultra-compact metal case is shock and vibration resistant according to IEC 60068-2.


The 120 watts CliQ DIN Rail power supply provides overvoltage, overload and thermal protection.

Due to the wide input voltage range from 85 to 264 Vac, the Delta's CliQ power supply is worldwide usable.

Multiple output terminals for fast wiring and easy installation.

INPUT SPECIFICATIONS	
Input voltage range	85 - 264 Vac (DC input range 120 - 375 Vdc)
Input frequency	47 Hz - 63 Hz
Nominal current	1.4 A @ 115 Vac, 0.8 A @ 230 Vac
Inrush current limitation I _{pk} (+25°C) typ.	< 80 A @ 115 Vac
Power factor	Conform to EN 61000-3-2 STD
Efficiency	> 84% typ.
Leakage current	< 1 mA

OUTPUT SPECIFICATIONS	
Output power	120 W
Output voltage range	22 V - 28 V
Output current	5 A
Residual ripple / peak switching (20 MHz) (at nominal values)	< 50 mV / < 240 mVpp
Mains buffering at nominal load (typ.)	> 35 ms @ 115 Vac, > 70 ms @ 230 Vac
Line regulation	< 0.5% typ. (@ 85 - 264 Vac input, 100% load)
Load regulation	< 1% typ. (with rated input, 0 - 100% load)

SAFETY	
EMC / Emissions	Class B / EN55022, CISPR22, Class B; FCC Title 47; EN 61204-3 (Class B on AC & Class A on DC side)
Immunity	EN 61000-4-2, 1995; EN 61000-4-3, 1998; EN 61000-4-4, 1995; IEC 61000-4-5, 1995; EN 61000-4-6, 1996; EN 61000-4-8 or IEC 61000-4-12 or IEEE C62.41; EN 61000-3-2, 1994
Approvals	UL508, EN 60950, cULus 60950, EN 50178, EN 60204, GS 
Voltage dips	Conform to EN 61000-4-11
Galvanic isolation	Input to output: 4 KVac Input to ground: 1.5 KVac Output to ground: 1.5 KVac

ENVIRONMENTAL	
Operating ambient temperature	-20°C ... +75°C *
Storage temperature	-25°C ... +85°C
Humidity operation	< 95%
Note (*)	* Operating amb. > 50°C derate power by 2.5% / °C

MECHANICAL DESIGN	
Case cover	Aluminium (Al5052)
Dimensions (L x W x H)	121 mm x 50 mm x 115 mm
Unit weight / box	0.540 kg
MTBF	> 800,000 hrs
Noise	Sound pressure level (SPL) < 40 dBA
Cooling	Convection
Input terminal	M4 x 3
Output terminal	M4 x 2 (2 pcs.)
Mounting rail	Standard TS35 mounting rail
Shock proof	IEC 60068-2-27
Vibration	IEC 60068-2-6
Protection structure	EN 60950 meet IPX0

240 W 1 Phase CliQ Power Supply

240 W 1 Phase CliQ Power Supply

DRP024V240W1AA

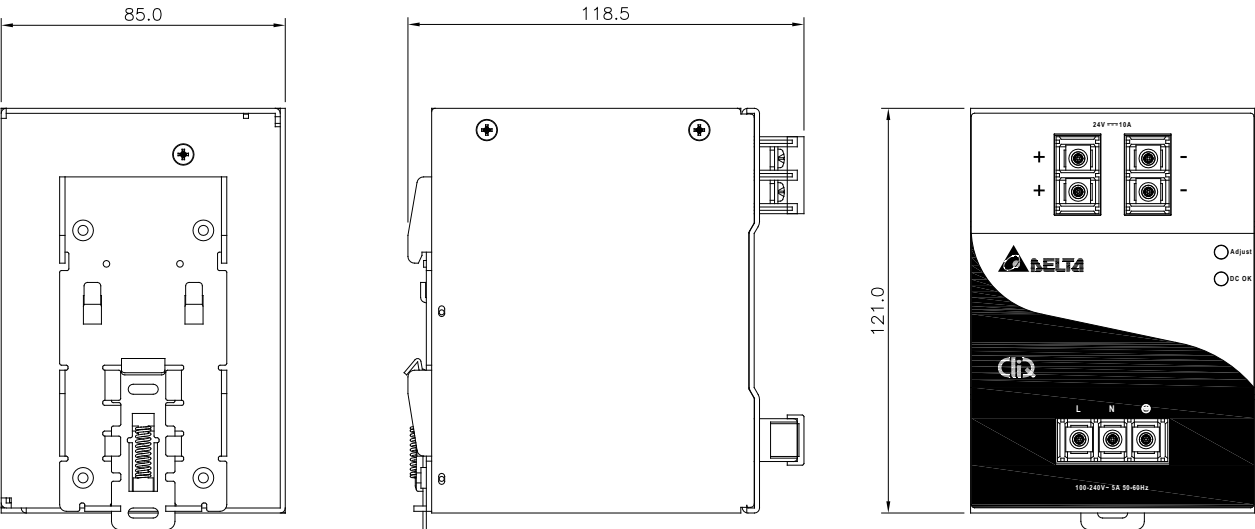


Features:

- Ease of wire connection to terminals
- Compact design for easy handling
- Overload protection
- Overvoltage protection
- Thermal protection
- Power boost 150% for 3 seconds
- Expected life time: 10 years
- Redundancy: Yes (with external oring diode)
- RoHS compliant



Mechanical drawings



1 Phase 240 W CliQ DIN Rail Power Supply

The new CliQ DRP024V240W1AA is the latest offering from one of the world's largest power supply manufacturers - Delta.

The product offers a nominal output voltage of 24 V, a wide temperature range from -20°C to +75°C and a minimum hold-up time of 20 ms.

The state-of-the-art design is made to withstand harsh industrial environments. The rugged, ultra-compact metal case is shock and vibration resistant according to IEC 60068-2.


The 240 watts CliQ DIN Rail power supply provides overvoltage, overload and thermal protection.

Due to the wide input voltage range from 85 to 264 Vac, the Delta's CliQ power supply is worldwide usable.

Multiple output terminals for fast wiring and easy installation.

INPUT SPECIFICATIONS	
Input voltage range	85 - 264 Vac (DC input range 120 - 375 Vdc)
Input frequency	47 Hz - 63 Hz
Nominal current	2.9 A @ 115 Vac, 1.5 A @ 230 Vac
Inrush current limitation I _{pt} (+25°C) typ.	No damage at I _{pt} ratings for all I/P devices shall not exceed their rating
Power factor	Conform to EN 61000-3-2 STD
Efficiency	> 84% typ.
Leakage current	< 3.5 mA

OUTPUT SPECIFICATIONS	
Output power	240 W
Output voltage range	22 V - 28 V
Output current	10 A
Residual ripple / peak switching (20 MHz) (at nominal values)	< 50 mV / < 240 mVpp
Mains buffering at nominal load (typ.)	> 20 ms @ 115 Vac & 230 Vac
Line regulation	< 0.5% typ. (@ 85 - 264 Vac input, 100% load)
Load regulation	< 1% typ. (with rated input, 0 - 100% load)

SAFETY	
EMC / Emissions	Class B / EN55022, CISPR22, Class B; FCC Title 47; EN 61204-3 (Class B on AC & Class A on DC side)
Immunity	EN 61000-4-2, 1995; EN 61000-4-3, 1998; EN 61000-4-4, 1995; IEC 61000-4-5, 1995; EN 61000-4-6, 1996; EN 61000-4-8 or IEC 61000-4-12 or IEEE C62.41; EN 61000-3-2, 1994
Approvals	UL508, EN 60950, cULus 60950, EN 50178, EN 60204, GS 
Voltage dips	Conform to EN 61000-4-11
Galvanic isolation	Input to output: 4 kVAc Input to ground: 1.5 kVAc Output to ground: 1.5 kVAc

ENVIRONMENTAL	
Operating ambient temperature	-20°C ... +75°C *
Storage temperature	-25°C ... +85°C
Humidity operation	< 95%
Note (*)	* Operating amb. > 50°C derate power by 2.5% / °C Operating amb. > 70°C derate power by 4% / °C

MECHANICAL DESIGN	
Case cover	Aluminium (Al5052)
Dimensions (L x W x H)	121 mm x 85 mm x 118.5 mm
Unit weight / box	1.040 kg
MTBF	> 300,000 hrs
Noise	Sound pressure level (SPL) < 40 dBA
Cooling	Convection
Input terminal	M4 x 3
Output terminal	M4 x 2 (2 pcs.)
Mounting rail	Standard TS35 mounting rail
Shock proof	IEC 60068-2-27
Vibration	IEC 60068-2-6
Protection structure	EN 60950 meet IPX0

480W 1 Phase CliQ Power Supply

480 W 1 Phase CliQ Power Supply

DRP024V480W1AA

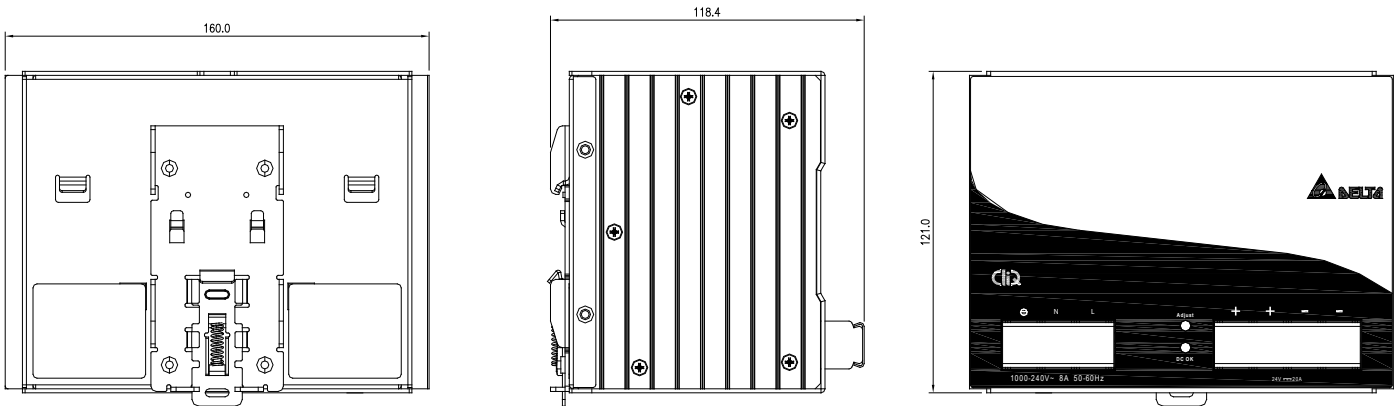


Features:

- Ease of wire connection to terminals
- Compact design for easy handling
- Overload protection
- Overvoltage protection
- Thermal protection
- Power boost 150% for 3 seconds
- Expected life time: 10 years
- Redundancy: Yes (with external oring diode)
- RoHS compliant



Mechanical drawings



1 Phase 480 W CliQ DIN Rail Power Supply

The new CliQ DRP024V480W1AA is the latest offering from one of the world’s largest power supply manufacturers - Delta.

The product offers a nominal output voltage of 24 V, a wide temperature range from -20°C to +75°C and a minimum hold-up time of 20 ms.

The state-of-the-art design is made to withstand harsh industrial environments. The rugged, ultra-compact metal case is shock and vibration resistant according to IEC 60068-2.


The 480 watts CliQ DIN Rail power supply provides overvoltage, overload and thermal protection.

Due to the wide input voltage range from 85 to 264 Vac, the Delta’s CliQ power supply is worldwide usable.

Multiple output terminals for fast wiring and easy installation.

INPUT SPECIFICATIONS	
Input voltage range	85 - 264 Vac (DC input range 120 - 375 Vdc)
Input frequency	47 Hz - 63 Hz
Nominal current	5.7 A @ 115 Vac, 2.8 A @ 230 Vac
Inrush current limitation I _{pt} (+25°C) typ.	No damage at I _{pt} ratings for all I/P devices shall not exceed their rating
Power factor	Conform to EN 61000-3-2 STD
Efficiency	> 86% typ.
Leakage current	< 1 mA

OUTPUT SPECIFICATIONS	
Output power	480 W
Output voltage range	22 V - 28 V
Output current	20 A
Residual ripple / peak switching (20 MHz) (at nominal values)	< 50 mV / < 240 mVpp
Mains buffering at nominal load (typ.)	> 20 ms @ 115 Vac & 230 Vac
Line regulation	< 0.5% typ. (@ 85 - 264 Vac input, 100% load)
Load regulation	< 1% typ. (with rated input, 0 - 100% load)

SAFETY	
EMC / Emissions	Class B / EN55022, CISPR22, Class B; FCC Title 47; EN 61204-3 (Class B on AC & Class A on DC side)
Immunity	EN 61000-4-2, 1995; EN 61000-4-3, 1998; EN 61000-4-4, 1995; IEC 61000-4-5, 1995; EN 61000-4-6, 1996; EN 61000-4-8 or IEC 61000-4-12 or IEEE C62.41; EN 61000-3-2, 1994
Approvals	UL508, EN 60950, cULus 60950, EN 50178, EN 60204, GS 
Voltage dips	Conform to EN 61000-4-11
Galvanic isolation	Input to output: 4 KVac Input to ground: 1.5 KVac Output to ground: 1.5 KVac

ENVIRONMENTAL	
Operating ambient temperature	-20°C ... +75°C *
Storage temperature	-25°C ... +85°C
Humidity operation	< 95%
Note (*)	* Operating amb. > 50°C derate power by 2.5% / °C

MECHANICAL DESIGN	
Case cover	Aluminium (Al5052)
Dimensions (L x W x H)	121 mm x 160 mm x 115 mm
Unit weight / box	1.800 kg
MTBF	> 300,000 hrs
Noise	Sound pressure level (SPL) < 40 dBA
Cooling	Convection
Input terminal	M4 x 3
Output terminal	M4 x 2 (2 pcs.)
Mounting rail	Standard TS35 mounting rail
Shock proof	IEC 60068-2-27
Vibration	IEC 60068-2-6
Protection structure	EN 60950 meet IPX0

60 W 3 Phase CliQ Power Supply

60 W 3 Phase CliQ Power Supply

DRP024V060W3AA

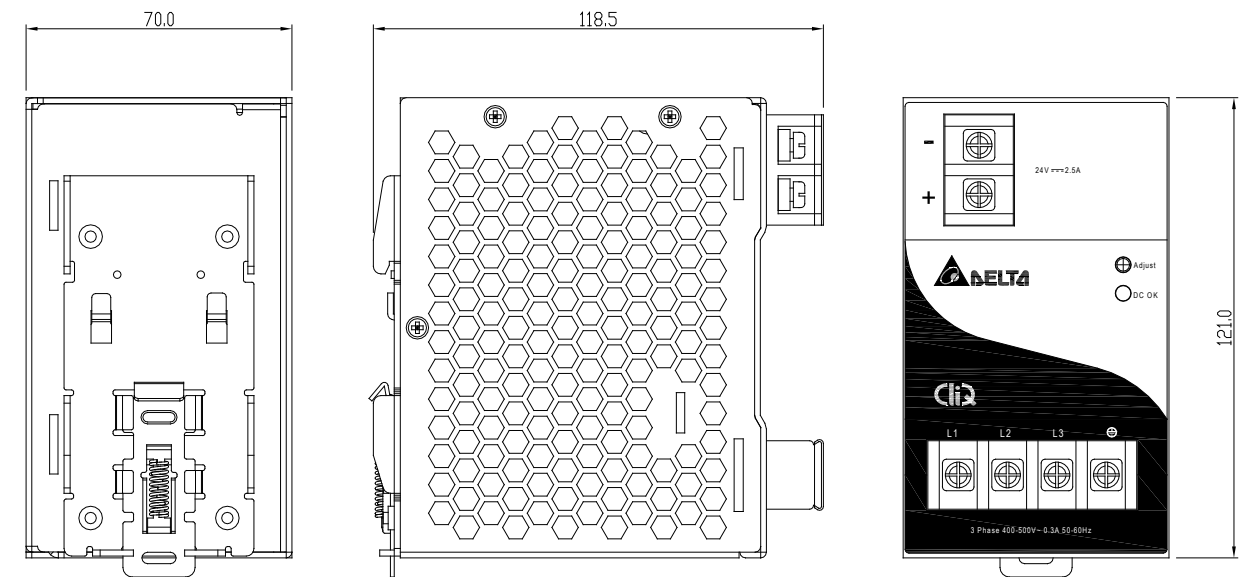


Features:

- Ease of wire connection to terminals
- Compact design for easy handling
- Overload protection
- Overvoltage protection
- Thermal protection
- Power boost 150% for 3 seconds
- Expected life time: 10 years
- Redundancy: Yes (with external oring diode)
- RoHS compliant



Mechanical drawings



3 Phase 60 W CliQ DIN Rail Power Supply

The new CliQ DRP024V060W3AA is the latest offering from one of the world's largest power supply manufacturers - Delta.

The product offers a nominal output voltage of 24 V, a wide temperature range from -20°C to +75°C and a minimum hold-up time of 20 ms.

The state-of-the-art design is made to withstand harsh industrial environments. The rugged, ultra-compact metal case is shock and vibration resistant according to IEC 60068-2.


The 60 watts CliQ DIN Rail power supply provides overvoltage, overload and thermal protection.

Due to the wide input voltage range from 320 to 575 Vac and 450 to 800 Vdc, the Delta's CliQ power supply is worldwide usable.

Multiple output terminals for fast wiring and easy installation.

INPUT SPECIFICATIONS	
Input voltage range	320 - 575 Vac (DC input range 450 - 800 Vdc)
Input frequency	47 Hz - 63 Hz
Nominal current	0.3 A @ 400 Vac approx.
Inrush current limitation I _{pk} (+25°C) typ.	< 30 A @ 400 Vac
Power factor	Conform to EN 61000-3-2 STD
Efficiency	> 86% @ 3 x 400 Vac, > 85% @ 3 x 500 Vac
Leakage current	< 3.5 mA

OUTPUT SPECIFICATIONS	
Output power	60 W
Output voltage range	22 V - 28 V
Output current	2.5 A
Residual ripple / peak switching (20 MHz) (at nominal values)	< 50 mV / < 240 mVpp
Mains buffering at nominal load (typ.)	> 30 ms @ 3 x 400 Vac, > 60 ms @ 3 x 500 Vac
Line regulation	< 0.5% typ. (@ 320 - 575 Vac input, 100% load)
Load regulation	< 1% typ. (with rated input, 0 - 100% load)

SAFETY	
EMC / Emissions	Class B / EN55022, CISPR22, Class B; FCC Title 47; EN 61204-3 (Class B on AC & Class A on DC side)
Immunity	EN 61000-4-2, 1995; EN 61000-4-3, 1998; EN 61000-4-4, 1995; IEC 61000-4-5, 1995; EN 61000-4-6, 1996; EN 61000-4-8 or IEC 61000-4-12 or IEEE C62.41; EN 61000-3-2, 1994
Approvals	UL508, EN 60950, cULus 60950, EN 50178, EN 60204, GS 
Voltage dips	Conform to EN 61000-4-11
Galvanic isolation	Input to output: 4 KVac Input to ground: 1.5 KVac Output to ground: 1.5 KVac

ENVIRONMENTAL	
Operating ambient temperature	-20°C ... +75°C *
Storage temperature	-25°C ... +85°C
Humidity operation	< 95%
Note (*)	* Operating amb. > 50°C derate power by 2.5% / °C

MECHANICAL DESIGN	
Case cover	Aluminium (Al5052)
Dimensions (L x W x H)	121 mm x 70 mm x 118.5 mm
Unit weight / box	0.560 kg
MTBF	> 500,000 hrs
Noise	Sound pressure level (SPL) < 40 dBA
Cooling	Convection
Input terminal	M4 x 4; 600 V rating
Output terminal	M4 x 2 (2 pcs.); 600 V rating
Mounting rail	Standard TS35 mounting rail
Shock proof	IEC 60068-2-27
Vibration	IEC 60068-2-6
Protection structure	EN 60950 meet IPX0

120 W 3 Phase CliQ Power Supply

120 W 3 Phase CliQ Power Supply

DRP024V120W3AA

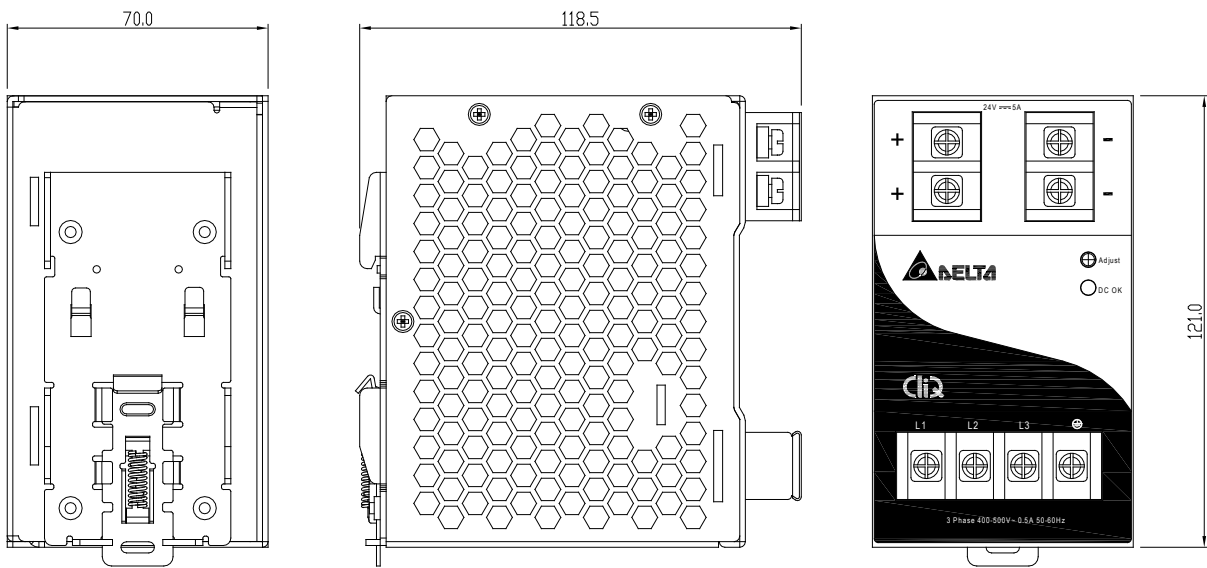


Features:

- Ease of wire connection to terminals
- Compact design for easy handling
- Overload protection
- Overvoltage protection
- Thermal protection
- Power boost 150% for 3 seconds
- Expected life time: 10 years
- Redundancy: Yes (with external oring diode)
- RoHS compliant



Mechanical drawings



3 Phase 120 W CliQ DIN Rail Power Supply

The new CliQ DRP024V120W3AA is the latest offering from one of the world’s largest power supply manufacturers - Delta.

The product offers a nominal output voltage of 24 V, a wide temperature range from -20°C to +75°C and a minimum hold-up time of 20 ms.

The state-of-the-art design is made to withstand harsh industrial environments. The rugged, ultra-compact metal case is shock and vibration resistant according to IEC 60068-2.


The 120 watts CliQ DIN Rail power supply provides overvoltage, overload and thermal protection.

Due to the wide input voltage range from 320 to 575 Vac and 450 to 800 Vdc, the Delta’s CliQ power supply is worldwide usable.

Multiple output terminals for fast wiring and easy installation.

INPUT SPECIFICATIONS	
Input voltage range	320 - 575 Vac (DC input range 450 - 800 Vdc)
Input frequency	47 Hz - 63 Hz
Nominal current	0.5 A @ 400 Vac approx.
Inrush current limitation I _{pk} (+25°C) typ.	< 30 A @ 400 Vac
Power factor	Conform to EN 61000-3-2 STD
Efficiency	> 86% @ 3 x 400 Vac, > 85% @ 3 x 500 Vac
Leakage current	< 3.5 mA

OUTPUT SPECIFICATIONS	
Output power	120 W
Output voltage range	22 V - 28 V
Output current	5 A
Residual ripple / peak switching (20 MHz) (at nominal values)	< 50 mV / < 240 mVpp
Mains buffering at nominal load (typ.)	> 35 ms @ 3 x 400 Vac, > 70 ms @ 3 x 500 Vac
Line regulation	< 0.5% typ. (@ 320 - 575 Vac input, 100% load)
Load regulation	< 1% typ. (with rated input, 0 - 100% load)

SAFETY	
EMC / Emissions	Class B / EN55022, CISPR22, Class B; FCC Title 47; EN 61204-3 (Class B on AC & Class A on DC side)
Immunity	EN 61000-4-2, 1995; EN 61000-4-3, 1998; EN 61000-4-4, 1995; IEC 61000-4-5, 1995; EN 61000-4-6, 1996; EN 61000-4-8 or IEC 61000-4-12 or IEEE C62.41; EN 61000-3-2, 1994
Approvals	UL508, EN 60950, cULus 60950, EN 50178, EN 60204, GS 
Voltage dips	Conform to EN 61000-4-11
Galvanic isolation	Input to output: 4 KVac Input to ground: 1.5 KVac Output to ground: 1.5 KVac

ENVIRONMENTAL	
Operating ambient temperature	-20°C ... +75°C *
Storage temperature	-25°C ... +85°C
Humidity operation	< 95%
Note (*)	* Operating amb. > 50°C derate power by 2.5% / °C

MECHANICAL DESIGN	
Case cover	Aluminium (Al5052)
Dimensions (L x W x H)	121 mm x 70 mm x 118.5 mm
Unit weight / box	0.720 kg
MTBF	> 500,000 hrs
Noise	Sound pressure level (SPL) < 40 dBA
Cooling	Convection
Input terminal	M4 x 4; 600 V rating
Output terminal	M4 x 2 (2 pcs.); 600 V rating
Mounting rail	Standard TS35 mounting rail
Shock proof	IEC 60068-2-27
Vibration	IEC 60068-2-6
Protection structure	EN 60950 meet IPX0

240 W 3 Phase CliQ Power Supply

240 W 3 Phase CliQ Power Supply

DRP024V240W3AA

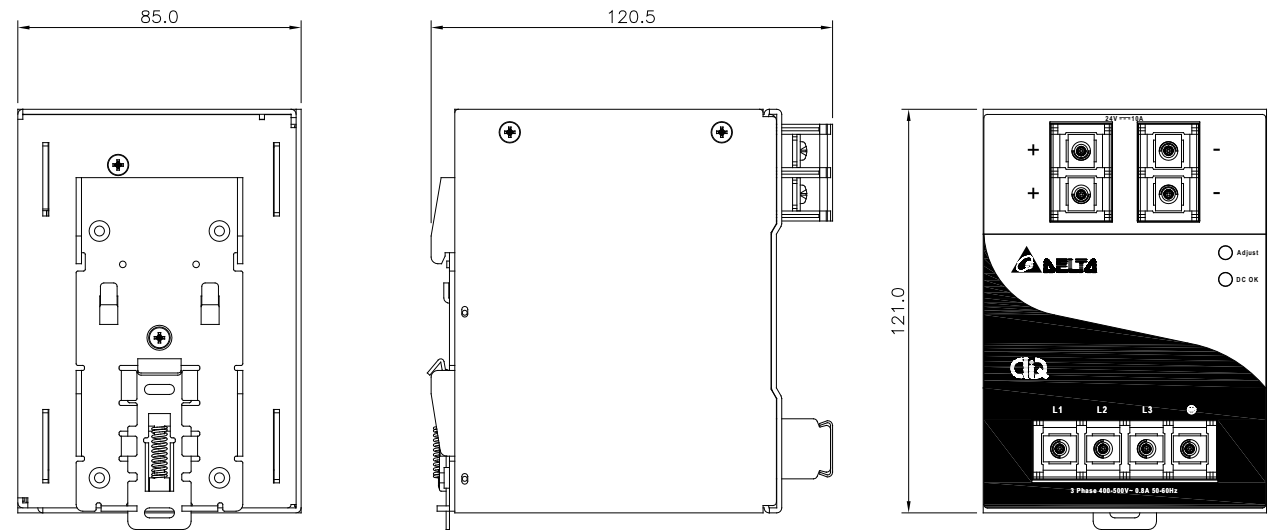


Features:

- Ease of wire connection to terminals
- Compact design for easy handling
- Overload protection
- Overvoltage protection
- Thermal protection
- Power boost 150% for 3 seconds
- Expected life time: 10 years
- Redundancy: Yes (with external oring diode)
- RoHS compliant



Mechanical drawings



3 Phase 240 W CliQ DIN Rail Power Supply

The new CliQ DRP024V240W3AA is the latest offering from one of the world’s largest power supply manufacturers - Delta.

The product offers a nominal output voltage of 24 V, a wide temperature range from -20°C to +75°C and a minimum hold-up time of 20 ms.

The state-of-the-art design is made to withstand harsh industrial environments. The rugged, ultra-compact metal case is shock and vibration resistant according to IEC 60068-2.


The 240 watts CliQ DIN Rail power supply provides overvoltage, overload and thermal protection.

Due to the wide input voltage range from 320 to 575 Vac and 450 to 800 Vdc, the Delta’s CliQ power supply is worldwide usable.

Multiple output terminals for fast wiring and easy installation.

INPUT SPECIFICATIONS	
Input voltage range	320 - 575 Vac (DC input range 450 - 800 Vdc)
Input frequency	47 Hz - 63 Hz
Nominal current	0.8 A @ 400 Vac approx.
Inrush current limitation I _{pk} (+25°C) typ.	< 40 A @ 400 Vac
Power factor	Conform to EN 61000-3-2 STD
Efficiency	> 87% @ 3 x 400 Vac, > 86% @ 3 x 500 Vac
Leakage current	< 3.5 mA

OUTPUT SPECIFICATIONS	
Output power	240 W
Output voltage range	22 V - 28 V
Output current	10 A
Residual ripple / peak switching (20 MHz) (at nominal values)	< 50 mV / < 240 mVpp
Mains buffering at nominal load (typ.)	> 35 ms @ 3 x 400 Vac, > 60 ms @ 3 x 500 Vac
Line regulation	< 0.5% typ. (@ 320 - 575 Vac input, 100% load)
Load regulation	< 1% typ. (with rated input, 0 - 100% load)

SAFETY	
EMC / Emissions	Class B / EN55022, CISPR22, Class B; FCC Title 47; EN 61204-3 (Class B on AC & Class A on DC side)
Immunity	EN 61000-4-2, 1995; EN 61000-4-3, 1998; EN 61000-4-4, 1995; IEC 61000-4-5, 1995; EN 61000-4-6, 1996; EN 61000-4-8 or IEC 61000-4-12 or IEEE C62.41; EN 61000-3-2, 1994
Approvals	UL508, EN 60950, cULus 60950, EN 50178, EN 60204, GS 
Voltage dips	Conform to EN 61000-4-11
Galvanic isolation	Input to output: 4 KVac Input to ground: 1.5 KVac Output to ground: 1.5 KVac

ENVIRONMENTAL	
Operating ambient temperature	-20°C ... +75°C *
Storage temperature	-25°C ... +85°C
Humidity operation	< 95%
Note (*)	* Operating amb. > 50°C derate power by 2.5% / °C Operating amb. > 70°C derate power by 4% / °C

MECHANICAL DESIGN	
Case cover	Aluminium (Al5052)
Dimensions (L x W x H)	121 mm x 85 mm x 120.5 mm
Unit weight / box	0.990 kg
MTBF	> 300,000 hrs
Noise	Sound pressure level (SPL) < 40 dBA
Cooling	Convection
Input terminal	M4 x 4; 600 V rating
Output terminal	M4 x 2 (2 pcs.); 600 V rating
Mounting rail	Standard TS35 mounting rail
Shock proof	IEC 60068-2-27
Vibration	IEC 60068-2-6
Protection structure	EN 60950 meet IPX0

480 W 3 Phase CliQ Power Supply

480 W 3 Phase CliQ Power Supply

DRP024V480W3AA

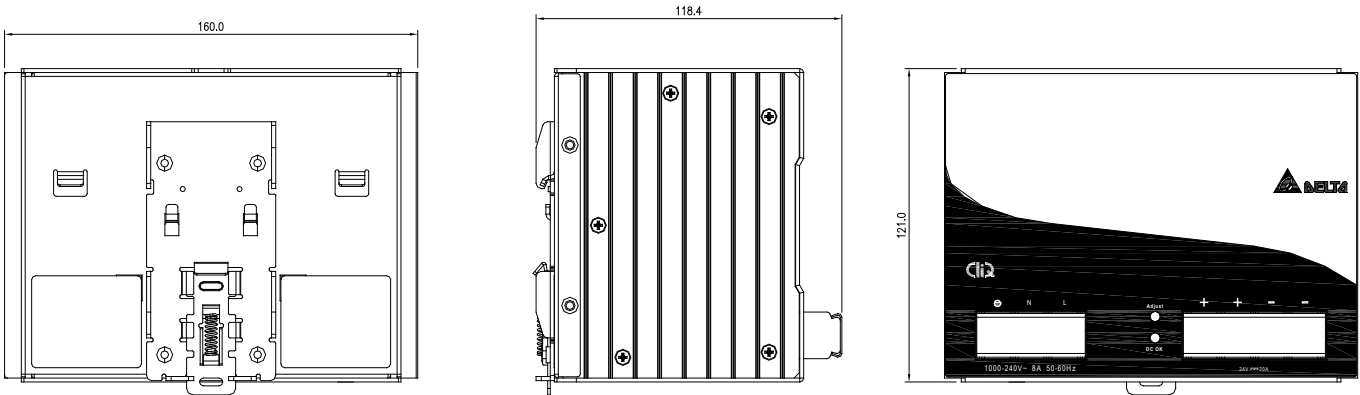


Features:

- Ease of wire connection to terminals
- Compact design for easy handling
- Overload protection
- Overvoltage protection
- Thermal protection
- Power boost 150% for 3 seconds
- Expected life time: 10 years
- Redundancy: Yes (with external oring diode)
- RoHS compliant



Mechanical drawings



3 Phase 480 W CliQ DIN Rail Power Supply

The new CliQ DRP024V480W3AA is the latest offering from one of the world's largest power supply manufacturers - Delta.

The product offers a nominal output voltage of 24 V, a wide temperature range from -20°C to +75°C and a minimum hold-up time of 20 ms.

The state-of-the-art design is made to withstand harsh industrial environments. The rugged, ultra-compact metal case is shock and vibration resistant according to IEC 60068-2.


The 480 watts CliQ DIN Rail power supply provides overvoltage, overload and thermal protection.

Due to the wide input voltage range from 320 to 575 Vac and 450 to 800 Vdc, the Delta's CliQ power supply is worldwide usable.

Multiple output terminals for fast wiring and easy installation.











INPUT SPECIFICATIONS	
Input voltage range	320 - 575 Vac (DC input range 450 - 800 Vdc)
Input frequency	47 Hz - 63 Hz
Nominal current	1.6 A @ 400 Vac approx.
Inrush current limitation I _{It} (+25°C) typ.	< 50 A @ 400 Vac
Power factor	Conform to EN 61000-3-2 STD
Efficiency	> 87% @ 3 x 400 Vac, > 86% @ 3 x 500 Vac
Leakage current	< 3.5 mA

OUTPUT SPECIFICATIONS	
Output power	480 W
Output voltage range	22 V - 28 V
Output current	20 A
Residual ripple / peak switching (20 MHz) (at nominal values)	< 50 mV / < 240 mVpp
Mains buffering at nominal load (typ.)	> 20 ms @ 3 x 400 Vac, > 40 ms @ 3 x 500 Vac
Line regulation	< 0.5% typ. (@ 320 - 575 Vac input, 100% load)
Load regulation	< 1% typ. (with rated input, 0 - 100% load)

SAFETY	
EMC / Emissions	Class B / EN55022, CISPR22, Class B; FCC Title 47; EN 61204-3 (Class B on AC & Class A on DC side)
Immunity	EN 61000-4-2, 1995; EN 61000-4-3, 1998; EN 61000-4-4, 1995; IEC 61000-4-5, 1995; EN 61000-4-6, 1996; EN 61000-4-8 or IEC 61000-4-12 or IEEE C62.41; EN 61000-3-2, 1994
Approvals	UL508, EN 60950, cULus 60950, EN 50178, EN 60204, GS 
Voltage dips	Conform to EN 61000-4-11
Galvanic isolation	Input to output: 4 KVac Input to ground: 1.5 KVac Output to ground: 1.5 KVac

ENVIRONMENTAL	
Operating ambient temperature	-20°C ... +75°C *
Storage temperature	-25°C ... +85°C
Humidity operation	< 95%
Note (*)	* Operating amb. > 50°C derate power by 2.5% / °C

MECHANICAL DESIGN	
Case cover	Aluminium (Al5052)
Dimensions (L x W x H)	121 mm x 160 mm x 115 mm
Unit weight / box	1.710 kg
MTBF	> 300,000 hrs
Noise	Sound pressure level (SPL) < 40 dBA
Cooling	Convection
Input terminal	M4 x 4; 600 V rating
Output terminal	M4 x 2 (2 pcs.); 600 V rating
Mounting rail	Standard TS35 mounting rail
Shock proof	IEC 60068-2-27
Vibration	IEC 60068-2-6
Protection structure	EN 60950 meet IPX0

1 Phase CliQ DIN Rail Power Supply					3 Phase CliQ DIN Rail Power Supply					
Output (DC)	DRP024V060W1AZ	DRP024V060W1AA	DRP024V120W1AA	DRP024V240W1AA	DRP024V480W1AA	DRP024V060W3AA	DRP024V120W3AA	DRP024V240W3AA	DRP024V480W3AA	
Output power	60 W	60 W	120 W	240 W	480 W	60 W	120 W	240 W	480 W	
Output voltage range	22 V - 28 V	22 V - 28 V	22 V - 28 V	22 V - 28 V	22 V - 28 V	22 V - 28 V	22 V - 28 V	22 V - 28 V	22 V - 28 V	
Output current	2.5 A	2.5 A	5 A	10 A	20 A	2.5 A	5 A	10 A	20 A	
Residual ripple/peak switching (20 MHz) (at nominal values)	< 50 mV / < 240 mVpp	< 50 mV / < 240 mVpp	< 50 mV / < 240 mVpp	< 50 mV / < 240 mVpp	< 50 mV / < 240 mVpp	< 50 mV / < 240 mVpp	< 50 mV / < 240 mVpp	< 50 mV / < 240 mVpp	< 50 mV / < 240 mVpp	
Mains buffering at nominal load (typ.)	> 20 ms @ 115 Vac, > 125 ms @ 230 Vac	> 20 ms @ 115 Vac, > 125 ms @ 230 Vac	> 35 ms @ 115 Vac, > 70 ms @ 230 Vac	> 20 ms @ 115 Vac & 230 Vac	> 20 ms @ 115 Vac & 230 Vac	> 30 ms @ 3 x 400 Vac, > 60 ms @ 3 x 500 Vac	> 35 ms @ 3 x 400 Vac, > 70 ms @ 3 x 500 Vac	> 35 ms @ 3 x 400 Vac, > 60 ms @ 3 x 500 Vac	> 20 ms @ 3 x 400 Vac, > 40 ms @ 3 x 500 Vac	
Line regulation	< 0.5% typ. (@ 85 - 264 Vac input, 100% load)	< 0.5% typ. (@ 85 - 264 Vac input, 100% load)	< 0.5% typ. (@ 85 - 264 Vac input, 100% load)	< 0.5% typ. (@ 85 - 264 Vac input, 100% load)	< 0.5% typ. (@ 85 - 264 Vac input, 100% load)	< 0.5% typ. (@ 320 - 575 Vac input, 100% load)	< 0.5% typ. (@ 320 - 575 Vac input, 100% load)	< 0.5% typ. (@ 320 - 575 Vac input, 100% load)	< 0.5% typ. (@ 320 - 575 Vac input, 100% load)	
Load regulation	< 1% typ. (with rated input, 0 - 100% load)	< 1% typ. (with rated input, 0 - 100% load)	< 1% typ. (with rated input, 0 - 100% load)	< 1% typ. (with rated input, 0 - 100% load)	< 1% typ. (with rated input, 0 - 100% load)	< 1% typ. (with rated input, 0 - 100% load)	< 1% typ. (with rated input, 0 - 100% load)	< 1% typ. (with rated input, 0 - 100% load)	< 1% typ. (with rated input, 0 - 100% load)	
Input (AC)										
Input voltage range	85 - 264 Vac (DC input range 120 - 375 Vdc)	85 - 264 Vac (DC input range 120 - 375 Vdc)	85 - 264 Vac (DC input range 120 - 375 Vdc)	85 - 264 Vac (DC input range 120 - 375 Vdc)	85 - 264 Vac (DC input range 120 - 375 Vdc)	320 - 575 Vac (DC input range 450 - 800 Vdc)	320 - 575 Vac (DC input range 450 - 800 Vdc)	320 - 575 Vac (DC input range 450 - 800 Vdc)	320 - 575 Vac (DC input range 450 - 800 Vdc)	
Input frequency	47 Hz - 63 Hz	47 Hz - 63 Hz	47 Hz - 63 Hz	47 Hz - 63 Hz	47 Hz - 63 Hz	47 Hz - 63 Hz	47 Hz - 63 Hz	47 Hz - 63 Hz	47 Hz - 63 Hz	
Nominal current	1.1 A @ 115 Vac, 0.7 A @ 230 Vac	1.1 A @ 115 Vac, 0.7 A @ 230 Vac	1.4 A @ 115 Vac, 0.8 A @ 230 Vac	2.9 A @ 115 Vac, 1.5 A @ 230 Vac	5.7 A @ 115 Vac, 2.8 A @ 230 Vac	0.3 A @ 400 Vac approx.	0.5 A @ 400 Vac approx.	0.8 A @ 400 Vac approx.	1.6 A @ 400 Vac approx.	
Efficiency	> 85% typ.	> 85% typ.	> 84% typ.	> 84% typ.	> 86% typ.	> 86% @ 3 x 400 Vac, > 85% @ 3 x 500 Vac	> 86% @ 3 x 400 Vac, > 85% @ 3 x 500 Vac	> 87% @ 3 x 400 Vac, > 86% @ 3 x 500 Vac	> 87% @ 3 x 400 Vac, > 86% @ 3 x 500 Vac	
Power factor	Conform to EN 61000-3-2 STD	Conform to EN 61000-3-2 STD	Conform to EN 61000-3-2 STD	Conform to EN 61000-3-2 STD	Conform to EN 61000-3-2 STD	Conform to EN 61000-3-2 STD	Conform to EN 61000-3-2 STD	Conform to EN 61000-3-2 STD	Conform to EN 61000-3-2 STD	
Inrush current limitation I²t (+25°C) typ.	30 A @ 115 Vac, 60 A @ 230 Vac	30 A @ 115 Vac, 60 A @ 230 Vac	< 80 A @ 115 Vac	No damage at I²t ratings for all I/P devices shall not exceed their rating	No damage at I²t ratings for all I/P devices shall not exceed their rating	< 30 A @ 400 Vac	< 30 A @ 400 Vac	< 40 A @ 400 Vac	< 50 A @ 400 Vac	
Leakage current	< 1 mA	< 1 mA	< 1 mA	< 3.5 mA	< 1 mA	< 3.5 mA	< 3.5 mA	< 3.5 mA	< 3.5 mA	
Mechanical design										
Case cover	Plastic (PC)	Aluminium (Al5052)	Aluminium (Al5052)	Aluminium (Al5052)	Aluminium (Al5052)	Aluminium (Al5052)	Aluminium (Al5052)	Aluminium (Al5052)	Aluminium (Al5052)	
Dimensions (L x W x H)	126 mm x 32 mm x 113 mm	121 mm x 32 mm x 120 mm	121 mm x 50 mm x 115 mm	121 mm x 85 mm x 118.5 mm	121 mm x 160 mm x 115 mm	121 mm x 70 mm x 118.5 mm	121 mm x 70 mm x 118.5 mm	121 mm x 85 mm x 120.5 mm	121 mm x 160 mm x 115 mm	
Unit weight / box	0.325 kg	0.370 kg	0.540 kg	1.040 kg	1.800 kg	0.560 kg	0.720 kg	0.990 kg	1.710 kg	
MTBF	> 800,000 hrs	> 800,000 hrs	> 800,000 hrs	> 300,000 hrs	> 300,000 hrs	> 500,000 hrs	> 500,000 hrs	> 300,000 hrs	> 300,000 hrs	
Noise	Sound pressure level (SPL) < 40 dBA	Sound pressure level (SPL) < 40 dBA	Sound pressure level (SPL) < 40 dBA	Sound pressure level (SPL) < 40 dBA	Sound pressure level (SPL) < 40 dBA	Sound pressure level (SPL) < 40 dBA	Sound pressure level (SPL) < 40 dBA	Sound pressure level (SPL) < 40 dBA	Sound pressure level (SPL) < 40 dBA	
Cooling	Convection	Convection	Convection	Convection	Convection	Convection	Convection	Convection	Convection	
Input terminal	M4 x 3	M4 x 3	M4 x 3	M4 x 3	M4 x 3	M4 x 4; 600 V rating	M4 x 4; 600 V rating	M4 x 4; 600 V rating	M4 x 4; 600 V rating	
Output terminal	M4 x 2	M4 x 2	M4 x 2 (2 pcs.)	M4 x 2 (2 pcs.)	M4 x 2 (2 pcs.)	M4 x 2 (2 pcs); 600 V rating	M4 x 2 (2 pcs); 600 V rating	M4 x 2 (2 pcs); 600 V rating	M4 x 2 (2 pcs); 600 V rating	
Mounting rail	Standard TS35 mounting rail	Standard TS35 mounting rail	Standard TS35 mounting rail	Standard TS35 mounting rail	Standard TS35 mounting rail	Standard TS35 mounting rail	Standard TS35 mounting rail	Standard TS35 mounting rail	Standard TS35 mounting rail	
Shock proof	IEC 60068-2-27	IEC 60068-2-27	IEC 60068-2-27	IEC 60068-2-27	IEC 60068-2-27	IEC 60068-2-27	IEC 60068-2-27	IEC 60068-2-27	IEC 60068-2-27	
Vibration	IEC 60068-2-6	IEC 60068-2-6	IEC 60068-2-6	IEC 60068-2-6	IEC 60068-2-6	IEC 60068-2-6	IEC 60068-2-6	IEC 60068-2-6	IEC 60068-2-6	
Protection structure	EN 60950 meet IPX0	EN 60950 meet IPX0	EN 60950 meet IPX0	EN 60950 meet IPX0	EN 60950 meet IPX0	EN 60950 meet IPX0	EN 60950 meet IPX0	EN 60950 meet IPX0	EN 60950 meet IPX0	
Safety / Environmental										
EMC / Emissions	Class B / EN55022, CISPR22, Class B; FCC Tiltle 47; EN 61204-3 (Class B on AC & Class A on DC side)	Class B / EN55022, CISPR22, Class B; FCC Tiltle 47; EN 61204-3 (Class B on AC & Class A on DC side)	Class B / EN55022, CISPR22, Class B; FCC Tiltle 47; EN 61204-3 (Class B on AC & Class A on DC side)	Class B / EN55022, CISPR22, Class B; FCC Tiltle 47; EN 61204-3 (Class B on AC & Class A on DC side)	Class B / EN55022, CISPR22, Class B; FCC Tiltle 47; EN 61204-3 (Class B on AC & Class A on DC side)	Class B / EN55022, CISPR22, Class B; FCC Tiltle 47; EN 61204-3 (Class B on AC & Class A on DC side)	Class B / EN55022, CISPR22, Class B; FCC Tiltle 47; EN 61204-3 (Class B on AC & Class A on DC side)	Class B / EN55022, CISPR22, Class B; FCC Tiltle 47; EN 61204-3 (Class B on AC & Class A on DC side)	Class B / EN55022, CISPR22, Class B; FCC Tiltle 47; EN 61204-3 (Class B on AC & Class A on DC side)	
Immunity	EN 61000-4-2, 1995; EN 61000-4-3, 1998; EN 61000-4-4, 1995; IEC 61000-4-5, 1995; EN 61000-4-6, 1996; EN 61000-4-8 or IEC 61000-4-12 or IEEE C62.41; EN 61000-3-2, 1994	EN 61000-4-2, 1995; EN 61000-4-3, 1998; EN 61000-4-4, 1995; IEC 61000-4-5, 1995; EN 61000-4-6, 1996; EN 61000-4-8 or IEC 61000-4-12 or IEEE C62.41; EN 61000-3-2, 1994	EN 61000-4-2, 1995; EN 61000-4-3, 1998; EN 61000-4-4, 1995; IEC 61000-4-5, 1995; EN 61000-4-6, 1996; EN 61000-4-8 or IEC 61000-4-12 or IEEE C62.41; EN 61000-3-2, 1994	EN 61000-4-2, 1995; EN 61000-4-3, 1998; EN 61000-4-4, 1995; IEC 61000-4-5, 1995; EN 61000-4-6, 1996; EN 61000-4-8 or IEC 61000-4-12 or IEEE C62.41; EN 61000-3-2, 1994	EN 61000-4-2, 1995; EN 61000-4-3, 1998; EN 61000-4-4, 1995; IEC 61000-4-5, 1995; EN 61000-4-6, 1996; EN 61000-4-8 or IEC 61000-4-12 or IEEE C62.41; EN 61000-3-2, 1994	EN 61000-4-2, 1995; EN 61000-4-3, 1998; EN 61000-4-4, 1995; IEC 61000-4-5, 1995; EN 61000-4-6, 1996; EN 61000-4-8 or IEC 61000-4-12 or IEEE C62.41; EN 61000-3-2, 1994	EN 61000-4-2, 1995; EN 61000-4-3, 1998; EN 61000-4-4, 1995; IEC 61000-4-5, 1995; EN 61000-4-6, 1996; EN 61000-4-8 or IEC 61000-4-12 or IEEE C62.41; EN 61000-3-2, 1994	EN 61000-4-2, 1995; EN 61000-4-3, 1998; EN 61000-4-4, 1995; IEC 61000-4-5, 1995; EN 61000-4-6, 1996; EN 61000-4-8 or IEC 61000-4-12 or IEEE C62.41; EN 61000-3-2, 1994	EN 61000-4-2, 1995; EN 61000-4-3, 1998; EN 61000-4-4, 1995; IEC 61000-4-5, 1995; EN 61000-4-6, 1996; EN 61000-4-8 or IEC 61000-4-12 or IEEE C62.41; EN 61000-3-2, 1994	EN 61000-4-2, 1995; EN 61000-4-3, 1998; EN 61000-4-4, 1995; IEC 61000-4-5, 1995; EN 61000-4-6, 1996; EN 61000-4-8 or IEC 61000-4-12 or IEEE C62.41; EN 61000-3-2, 1994
Approvals	UL508, EN 60950, cULus 60950, EN 50178, EN 60204, GS, CCSAus to CSA C22.2 No. 60950-1: 03 	UL508, EN 60950, cULus 60950, EN 50178, EN 60204, GS 	UL508, EN 60950, cULus 60950, EN 50178, EN 60204, GS 	UL508, EN 60950, cULus 60950, EN 50178, EN 60204, GS 	UL508, EN 60950, cULus 60950, EN 50178, EN 60204, GS 	UL508, EN 60950, cULus 60950, EN 50178, EN 60204, GS 	UL508, EN 60950, cULus 60950, EN 50178, EN 60204, GS 	UL508, EN 60950, cULus 60950, EN 50178, EN 60204, GS 	UL508, EN 60950, cULus 60950, EN 50178, EN 60204, GS 	UL508, EN 60950, cULus 60950, EN 50178, EN 60204, GS 
Voltage dips	Conform to EN 61000-4-11	Conform to EN 61000-4-11	Conform to EN 61000-4-11	Conform to EN 61000-4-11	Conform to EN 61000-4-11	Conform to EN 61000-4-11	Conform to EN 61000-4-11	Conform to EN 61000-4-11	Conform to EN 61000-4-11	
Galvanic isolation	Input to output: 4 KVac Input to ground: 1.5 KVac Output to ground: 1.5 KVac	Input to output: 4 KVac Input to ground: 1.5 KVac Output to ground: 1.5 KVac	Input to output: 4 KVac Input to ground: 1.5 KVac Output to ground: 1.5 KVac	Input to output: 4 KVac Input to ground: 1.5 KVac Output to ground: 1.5 KVac	Input to output: 4 KVac Input to ground: 1.5 KVac Output to ground: 1.5 KVac	Input to output: 4 KVac Input to ground: 1.5 KVac Output to ground: 1.5 KVac	Input to output: 4 KVac Input to ground: 1.5 KVac Output to ground: 1.5 KVac	Input to output: 4 KVac Input to ground: 1.5 KVac Output to ground: 1.5 KVac	Input to output: 4 KVac Input to ground: 1.5 KVac Output to ground: 1.5 KVac	
Operating ambient temperature	-20 °C ~ 75 °C *	-20 °C ~ 75 °C *	-20 °C ~ 75 °C *	-20 °C ~ 75 °C *	-20 °C ~ 75 °C *	-20 °C ~ 75 °C *	-20 °C ~ 75 °C *	-20 °C ~ 75 °C *	-20 °C ~ 75 °C *	
Storage temperature	-25 °C ~ 85 °C	-25 °C ~ 85 °C	-25 °C ~ 85 °C	-25 °C ~ 85 °C	-25 °C ~ 85 °C	-25 °C ~ 85 °C	-25 °C ~ 85 °C	-25 °C ~ 85 °C	-25 °C ~ 85 °C	
Humidity operation	< 95 %	< 95 %	< 95 %	< 95 %	< 95 %	< 95 %	< 95 %	< 95 %	< 95 %	
Note (*)	* Operating amb. < 0°C until -20°C derate power by 1% / °C; Operating amb. > 50°C derate power by 2.5% / °C; Operating amb. > 70°C derate power by 4% / °C	* Operating amb. < 0°C until -20°C derate power by 1% / °C; Operating amb. > 50°C derate power by 2.5% / °C	* Operating amb. > 50°C derate power by 2.5% / °C	* Operating amb. > 50°C derate power by 2.5% / °C; Operating amb. > 70°C derate power by 4% / °C	* Operating amb. > 50°C derate power by 2.5% / °C	* Operating amb. > 50°C derate power by 2.5% / °C	* Operating amb. > 50°C derate power by 2.5% / °C	* Operating amb. > 50°C derate power by 2.5% / °C	* Operating amb. > 50°C derate power by 2.5% / °C	* Operating amb. > 50°C derate power by 2.5% / °C



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